AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Original) A method for introduction or extraction of bioparticles into/from biological membrane-enveloped structures, comprising:

applying a magnetic alternating field to a sample comprising biological membrane-enveloped structures and magnetically susceptible particles, whereby an increase of the thermal and/or kinetic energy of said magnetically susceptible particles causes the formation of pores in said biological membrane-enveloped structures,

which pores allows the introduction or extraction of bioparticles into/from said biological membrane-enveloped structures.

2. (Original) A method according to claim 1, wherein said magnetic field has an alternating field direction of a frequency in the range 1-5 MHz.

3. (Previously Presented) A method according to claim 1, wherein said magnetic field has a field strength of 1 mT.

4. (Previously Presented) A method according to claim 1, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

5. (Original) A method according to claim 4, wherein said coils are supplied with alternating currents of different frequencies.

6. (Original) A method according to claim 4, wherein said coils are supplied with either the positive or the negative part of the supplied alternating current.

7. (Previously Presented) A method according to claim 1, wherein said bioparticles are selected from the group comprising DNA molecules, RNA molecules, proteins, other biopolymers, peptides, chemical preparations, organic compounds, inorganic compounds or synthetic polymers or combinations thereof.

8. (Previously Presented) A method according to claim 1, wherein said biological membrane-enveloped structures are selected from the group consisting of body tissues, cells, bacteria, virus particles, organelles at a subcellular level, liposomes or proteins.

9. (Previously Presented) A method according to claim 1, for use for specific lysis of cells.

10. (Previously Presented) A method according to claim 1, for use for modifying the genetic code of a host cell and/or metabolism.

11. (Previously Presented) A device for performing the method as defined in claim 1, comprising at least one coil for generating a magnetic alternating field, optionally, a thermostat for accurate temperature control of said at least one coil, a means for variable and accurate timing control of the time during which said alternating current is on and during which a sample to be treated is exposed to said applied magnetic field, and control system for accurate setting of strength and frequency of said alternating current.

12. (Original) A method according to claim 2, wherein said magnetic field has a field strength of 1 mT.

13. (Original) A method according to claim 2, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

14. (Original) A method according to claim 3, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

15. (Original) A method according to claim 12, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.

16. (Original) A method according to claim 2, wherein said bioparticles are selected from the group comprising DNA molecules, RNA molecules, proteins, other biopolymers, peptides, chemical preparations, organic compounds, inorganic compounds or synthetic polymers or combinations thereof.

17. (Original) A method according to claim 2, wherein said biological membrane-enveloped structures are selected from the group consisting of body tissues, cells, bacteria, virus particles, organelles at a subcellular level, liposomes or proteins.

18. (Original) A method according to claim 2, for use for specific lysis of cells.

19. (Original) A method according to claim 2, for use for modifying the genetic code of a host cell and/or metabolism.

20. (Original) A device for performing the method as defined in claim 2, comprising at least one coil for generating a magnetic alternating field, optionally, a thermostat for accurate temperature control of said at least one coil, a means for variable and accurate timing control of the time during which said alternating current is on and during which a sample to be treated is exposed to said applied magnetic field, and control system for accurate setting of strength and frequency of said alternating current.